Index of Claims

| Application/ | Control No | ). |
|--------------|------------|----|
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10/519,654

Examiner

Applicant(s)/Patent under Reexamination

MARSH, CLAY B

Art Unit

Tamthom N. Truong

1624

| <br>√ | Rejected |
|-------|----------|
| =     | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   |                                |

Restricted

Non-Elected

I Interference

A Appeal
O Objected

| Cl            | aim<br>I   | Date     |              |  |  |  |  |           |                |          |  |  |
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| <del>اٽ</del> | 1111   | +-       |              |  |  |  |  |           |                |          |  |  |
| Final         | Original   | 11/14/06 |              |  |  |  |  |           |                |          |  |  |
| $\vdash$      | 1  | 1,       | -            | ╈  | +  | $\top$   | $\top$   | T         | T              | +-       |  |  |
|               | 2  | ΙŤ       | +            | T  | T  | +  | $\top$   | $^{+}$    | Ť              | T        |  |  |
| _             | 3  | Ħ        | +            | +  | $\dagger$  | $\top$   | 十  | ╁         | ╁              | 1        |  |  |
|               | 4  | Ħ        | T            | $\top$   | $\top$   | 1  | 1  | $\top$    | 1              | T        |  |  |
| l             | 5  | Ħ        | 1            | $\top$   | 十  | 1  | $\dagger$  | $\dagger$ | 1              | 1-       |  |  |
|               | 6  | Ħ        | $\top$       | $\top$   | 十  | 1  | +-   | $\top$    | ✝              | T        |  |  |
|               | 7  | Ħ        | T            | 1  | T  | 1  | T  | T         | +              |          |  |  |
|               | 1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 14 15 16 17 18 19 20 12 22 23 24 25 26 29 30 31 32 33 34 35 | П        | T            | Т  | T  | 1  | T  | Τ         |                |          |  |  |
|               | 9  | П        | 1            |  | 1  | 1  | $\top$   | $\top$    | $\top$         |          |  |  |
|               | 10   | П        | Т            | Т  | Τ  | T  | Τ  | T         | $\top$         | $\top$   |  |  |
|               | 11   | П        | 1            | T  | T  | T  | 1  |           | $\top$         |          |  |  |
|               | 12   | 1        | 1            | İ  | T  | Τ  | T  | Ì         |                | П        |  |  |
|               | 18   |          |              | T  | T  | 1  | Т  | İ         | T              | $\Box$   |  |  |
|               | 14   | Т        | T            | T  | Î  | Т  | Τ  | 1         |                |          |  |  |
|               | 15   |          | Τ.           | Т  | Т  | T  |  |           |                |          |  |  |
|               | 16   | П        | Т            | Τ  | T  | 1  |  | T         | 1              | $\Box$   |  |  |
|               | 17   |          |              | Τ  | T  |  |  |           | Т              | $\Box$   |  |  |
|               | 1β   |          | Т            |  |  |  |  |           |                | П        |  |  |
|               | 19   | Γ        |              | Т  | Т  |  |  |           | T              | П        |  |  |
|               | 20   |          |              |  | Г  |  |  |           |                | $\Box$   |  |  |
|               | 21   |          | Π            |  |  |  |  | П         | П              | П        |  |  |
|               | 222  |          |              |  |  |  | Π  | П         |                |          |  |  |
|               | <b>2</b> 3   |          |              |  |  |  |  |           |                | $\Box$   |  |  |
|               | 24   |          |              |  |  |  |  |           |                |          |  |  |
|               | <b>4</b> 5   | L        | _            |  |  |  |  |           |                |          |  |  |
|               | 46   |          | _            | $\perp$  |  |  | _  |           | L              |          |  |  |
|               | 22   |          | _            | <u> </u>   |  | _  | L_   | L         | <u> </u>       | Ш        |  |  |
|               | 28   | 1        | <u> </u>     | L  | <u> </u>   | ╙  |  | L         | _              | Ш        |  |  |
|               | 29   | Щ        | _            | ╙  | <u> </u>   | <u> </u>   | ╙  | L.        | $oxed{oxed}$   | Ш        |  |  |
|               | 30   | Щ        | _            | ـــ  | ┺  | ļ  | ╙  | <u> </u>  | L              | Ш        |  |  |
| -             | 31   | Н        | <u> </u>     | -  | ┡  | _  | _  | _         | L              | Ш        |  |  |
|               | 32   | 4        | <u> </u>     | <del> </del>                                     | ┡  | ┞  | ├-   | _         | ┞              | Ш        |  |  |
| -             | 33   | H        | -            | -  | ⊢  | ┝  | ⊢  | _         | <del>  -</del> | Н        |  |  |
|               | 34   | μĻ       | ⊢            | ⊢  | -  | ┝  | ļ  |           | <del> </del>   | Н        |  |  |
|               | 35   | ✓        | $\vdash$     | +-   | $\vdash$   | $\vdash$   | $\vdash$   | ├-        | ⊢              | Н        |  |  |
|               | 37   | _        | ├            | ╁╾   | ├  | ⊢  | ┢  | ├         | ⊢              | Н        |  |  |
|               | 36<br>37<br>38   | _        | <del> </del> | ╁  | ╁  | -  | $\vdash$   | $\vdash$  | -              | H        |  |  |
|               | 39   | -        | $\vdash$     | +-   | ╁  | $\vdash$   | -  | ├         | $\vdash$       | H        |  |  |
|               | 40   |          | -            | _  | ⊢  | $\vdash$   | -  | ⊢         | -              | Н        |  |  |
|               | 41   | -        | -            | H  | ╁╌   | <del> </del>                                     | $\vdash$   | $\vdash$  | -              | H        |  |  |
|               | 42   |          | $\vdash$     | -  | ╁  | -  | <del> </del>                                     | $\vdash$  | $\vdash$       | Н        |  |  |
|               | 43   | -        | <del> </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | $\vdash$   | $\vdash$  | $\vdash$       | Н        |  |  |
|               | 44   | _        | _            | <b>-</b>   | 1  | <del>                                     </del> |  | $\vdash$  | <del> </del>   | Н        |  |  |
|               | 45   | _        | Н            | $\vdash$   | $\vdash$   | $\vdash$   | <del>                                     </del> | Ι         |                | H        |  |  |
|               | 46   | _        |              | $\vdash$   | $\vdash$   | T  |  |           |                | H        |  |  |
| $\neg$        | 47   |          | _            | $\vdash$   |  |  |  |           |                | H        |  |  |
|               | 48   |          | -            | T  | Т  | $\vdash$   |  |           | -              | $\vdash$ |  |  |
|               | 49   |          |              |  | <del>                                     </del> |  |  |           | П              | $\dashv$ |  |  |
|               | 50   |          | -            | $\vdash$   | 一  | $\vdash$   |  | $\vdash$  | $\vdash$       | $\dashv$ |  |  |
|               |  |          |              |  |  |  |  |           |                |          |  |  |

|          | Claim    |          |              | Date     |              |          |           |              |                 |          |              |  |  |
|----------|----------|----------|--------------|----------|--------------|----------|-----------|--------------|-----------------|----------|--------------|--|--|
|          | Final    | Original |              |          |              |          |           |              |                 |          |              |  |  |
| ľ        |          | 51       | Г            |          | $\top$       | T        | $\top$    | $\top$       | T               | 1        | 1            |  |  |
| ۲        |          | 51<br>52 | T            | T        | 十            | T        | +         | ╈            | $\top$          | 1        | T            |  |  |
| 上        |          | 53       | t            | T        | +            | ╈        | +         | +            | t               |          | 十            |  |  |
| h        |          | 54       | H            | T        | 1-           | ╁╴       | $\top$    | +            | +               | $\vdash$ | +            |  |  |
| r        |          | 55       | ╁╴           | +-       | ╁            | ╁        | $\dagger$ | ╁            | ╁╌              | ╁╌       | +            |  |  |
| ۲        |          | 56       | $\vdash$     | $^{+}$   | 1            | ╁        | t         | ╁            | +-              | $\vdash$ | ╁╴           |  |  |
| ⊢        |          | 57       | $\vdash$     | +        | ╁╌           | +        | +         | +-           | +               | ╁        | ╁            |  |  |
| H        |          | 58       | ╁            | ╁╴       | ╁╌           | +        | +         | +-           | +               | $\vdash$ | +            |  |  |
| ┢        |          | 59       | ┢            | ┢        | ╁            | +        | ╁         | +            | +               | ╁        | ╁╴           |  |  |
| ┢        |          | 60       | ⊢            | ╁        | ╁            | ╁┈       | +-        | ╁            | ┿               | ╁        | ╀            |  |  |
| $\vdash$ |          | 61       | -            | ╁        | ╀            | ╁        | ╆         | ╁╌           | ╁               | ├        | ⊢            |  |  |
| $\vdash$ |          |          | ⊢            | ├        | ╁            | ╀        | +-        | ┿            | $\vdash$        | $\vdash$ | ╀            |  |  |
| ┝        |          | 62       | ⊢            | ├-       | ╀            | ╄        | ┿         | ╀            | ┼-              | ╀        | ╄            |  |  |
| F        |          | 63       | <del> </del> | ┢        | ⊬            | ╀        | ╄         | +-           | -               | ⊢        | ⊢            |  |  |
| ⊦        |          | 64       | _            | ⊢        | ╄            | ╁┈       | ┼-        | ┿-           | -               | _        | ╁            |  |  |
| -        |          | 65<br>66 | <u> </u>     | ⊢        | ╁            | ╀        | +-        | ┿            | $\vdash$        | ⊢        | -            |  |  |
| $\vdash$ |          | 67       | H            | $\vdash$ | ╀            | ┼        | ╁         | ╄            | ⊢               | _        | ╄            |  |  |
| -        |          | 67       | H            | ├        | ╀            |          | ╁         | ╀            | ┼-              | -        | ╀            |  |  |
| -        |          | 68<br>69 | ⊩            | -        | ╁            | ┼        | ╀         | ╀            | -               |          | ╁            |  |  |
| $\vdash$ |          | 70       | -            | H        | ├            | ╀        | ┼         | ┼            | ⊢               | -        | 1            |  |  |
| $\vdash$ |          | 70       | -            |          | ⊢            | +-       | ╀         | ┼-           | <del> -</del>   | <u> </u> | ⊢            |  |  |
| $\vdash$ | _        | 71<br>72 | <u> </u>     | <u> </u> | ┞            | ╀        | ╀         | ┼-           | ╄               | ⊢        | <del> </del> |  |  |
| ┝        |          | 72       | <u> </u>     | ├        | ⊢            | ╀        | ╀         | ┼            | _               | L        | -            |  |  |
| L        |          | 73       |              | L        | ⊢            | ┼-       | ╀         | ╀            | ⊢               | <u> </u> | ┞            |  |  |
| H        |          | 74       | _            | <u> </u> | ⊬            | ⊢        | ┼         | ╀            | ļ               | L        | <u> </u>     |  |  |
| $\vdash$ | -        | 75<br>70 |              | ⊢        | -            | ╁        | ╀         | ₩            | _               | <u> </u> | -            |  |  |
| $\vdash$ |          | 76       | _            | H        | ╁            | ├-       | ₩         | ╁            | -               | ļ.,      | ⊢            |  |  |
| F        |          | 77       |              | H        | ⊢            | ⊢        | ╁         | ╄╌           | ⊢               | ⊢        | -            |  |  |
| $\vdash$ | _        | 78       |              | $\vdash$ | ⊢            | ├-       | ⊢         | -            | ┢               | <u> </u> | ├-           |  |  |
| $\vdash$ |          | 79<br>80 |              | ├        | ⊢            | ╀        | ⊢         | ┼            | ▙               | <u> </u> | <b>!</b>     |  |  |
| -        |          |          |              | -        | ┝            | ⊢        | ⊢         | ⊢            | <u> </u>        | <u> </u> | ⊢            |  |  |
| $\vdash$ | $\dashv$ | 81       |              | _        | -            | ┝        | ⊢         | <del> </del> | ├-              | -        | ⊢            |  |  |
| -        |          | 82<br>83 |              | -        | ├_           | ⊢        | -         | ـــ          | 1               | <u> </u> | <u> </u>     |  |  |
| ┝        |          | 84       |              |          | _            | ⊢        | ├-        | ├-           | L               | <u> </u> | <u> </u>     |  |  |
| $\vdash$ |          | 85       | _            |          | -            | ⊢        | ┢         | -            | -               | <u> </u> | <u> </u>     |  |  |
| -        |          | 86       |              | <u> </u> | H            | ┝        | ┢         | -            | H               | _        | -            |  |  |
| -        |          | 87       |              | _        | _            | H        | ├-        | -            |                 |          | -            |  |  |
| $\vdash$ |          | 0/       |              | _        | -            | -        | ⊢         | $\vdash$     | -               |          | -            |  |  |
| $\vdash$ |          | 88<br>89 |              | _        | -            | -        | ├-        | ⊢            |                 | _        | -            |  |  |
| $\vdash$ |          |          |              |          | $\vdash$     |          | ⊢         | -            | <u> </u>        |          | ⊢            |  |  |
| $\vdash$ |          | 90<br>91 |              |          | <del> </del> | ⊢        | ⊢         | ⊢            | _               | <u> </u> |              |  |  |
| $\vdash$ |          | 92       |              |          | -            | ⊢        | ├         | ⊢            | -               | _        | _            |  |  |
| $\vdash$ |          | 93       | -            | -        | -            | -        | $\vdash$  | ⊢            | $\vdash$        |          | -            |  |  |
| $\vdash$ | $\dashv$ | 94       |              | _        | _            |          | ├-        | $\vdash$     | Н               |          | _            |  |  |
| $\vdash$ | $\dashv$ | 95       | -            | _        | -            | <u> </u> | $\vdash$  | -            | $\vdash$        |          |              |  |  |
| $\vdash$ | $\dashv$ | 96       | -            |          | -            | ⊢        | $\vdash$  | -            |                 |          | _            |  |  |
| $\vdash$ | +        | 97       | $\dashv$     | _        |              | -        | -         | $\vdash$     | $\vdash$        |          | _            |  |  |
| $\vdash$ |          | 98       |              | _        |              | ├        | $\vdash$  | -            | $\vdash \vdash$ | -        |              |  |  |
| $\vdash$ | -        | 99       | -            | $\dashv$ | _            | $\vdash$ | -         | $\vdash$     | $\vdash$        |          |              |  |  |
| $\vdash$ | -        | 100      | -            |          | _            | $\vdash$ | $\vdash$  | H            | -               | -        | _            |  |  |
| $\Box$   |          | 100      |              |          | _            |          |           | L            | لــــا          |          |              |  |  |

| CI            | aim        | Т        |              |          | -            | Da           | te       |              |          |                 |
|---------------|------------|----------|--------------|----------|--------------|--------------|----------|--------------|----------|-----------------|
|               | 1          | Т        | Τ            | Τ        | Т            | Т            | T        | T            | Т        | Т               |
| Final         | Original   |          |              |          |              |              |          | 1            |          |                 |
| 证             | Ę          |          |              | l        |              |              | 1        |              |          | İ               |
|               |            | L        | L            |          |              | L            | L        |              |          |                 |
| L             | 101<br>102 | ┸        | _            | ــــــ   | $\perp$      |              | 丄        |              |          |                 |
|               | 102        | _        | 1_           | 1_       | ↓_           | _            | ╙        | ↓.           |          |                 |
|               | 103        | ᆫ        | ┸            | ╄        | 丄            | 1            | 丄        | 1_           | 1_       | L               |
| L             | 104<br>105 | ╄        | ╄            | ↓_       | ↓_           | ↓_           | ↓_       | ╀            | ┞-       | _               |
|               | 105        | ↓_       | 1            | ↓_       | ↓_           | ╀            | ↓_       | ┺            | <u> </u> | $oxed{oxed}$    |
| <u> </u>      | 106        | ↓_       | ļ.           | ╀        | ╀            | ┼-           | ╀        | -            | _        | _               |
|               | 107        | ╀        | <u> </u>     | ļ.,      | ┼-           | $\vdash$     | ┼        | ╀-           | ╄-       | _               |
|               | 108        | ⊢        | -            | 1_       | ╀            | -            | ┼        | ╀.           | ╀        | 1               |
| <u> </u>      | 109        | ⊢        | ╀            | ┼-       | ╀            | ╄            | -        | -            | ┼        | Н               |
| <u> </u>      | 110<br>111 | ╁        | ╀            | ╄        | ┼-           | ╀            | ╄-       | ╀            | ┼-       | ⊢               |
|               | 111        | -        | ┼            | +-       | ⊢            | ╀            | ╀        | ╀            | ╀        | $\vdash$        |
| -             | 112<br>113 | ⊢        | $\vdash$     | ╀        | ╀            | ╁            | ╀        | ⊬            | ╄        | $\vdash$        |
| -             | 114        | ╁        | ╁            | +-       | ╁            | ╁            | ╁        | ╁            | +-       | Н               |
| ļ             | 115        | ╌        | ╁            | ┼-       | ╁            | ╁            | ╁        | ╁╌           | ╁        | Н               |
|               | 116        | $\vdash$ | ╁╌           | ╁        | ╁╴           | ╁            | ╁        | $\vdash$     | ┢        | Н               |
|               | 117        | -        | $\vdash$     | ╁        | ╁╌           | ╁            | $\vdash$ | $\vdash$     | ┢        | $\vdash$        |
|               | 118        | 1        | 1            | ╁╌       | ╁╌           | ╁╴           | ┢        | ├-           | ╁        | $\vdash$        |
| -             | 118<br>119 | $\vdash$ | 1            | ╁        | ╁╴           | ╁╴           | ┼        | ╁╌           | ╆        | Н               |
|               | 120        | <u> </u> |              | 1-       | $\vdash$     |              | $\vdash$ | H            | -        | H               |
|               | 121        | ╁        | <del> </del> | $\vdash$ | t            | 1            | 1        | Н            | +        | Н               |
|               | 121<br>122 | T        | $\vdash$     | $\vdash$ | 1            | T            | t        | 1            | T        | $\vdash$        |
|               | 123        | 一        | _            | T        | $\vdash$     | T            | T        | T            | T        | П               |
|               | 123<br>124 |          |              | -        |              | 1            | 1        |              | İΤ       | П               |
|               | 125        | Г        |              |          | Т            |              |          |              |          | П               |
|               | 126        |          | İ            |          | $\vdash$     |              |          | Г            |          | П               |
|               | 126<br>127 |          | 1            |          |              |              |          |              |          | П               |
|               | 128        |          |              |          |              |              |          |              |          |                 |
|               | 129<br>130 |          |              |          |              |              |          | Π            | Г        |                 |
|               | 130        |          |              |          |              |              |          |              |          |                 |
|               | 131        |          |              |          |              |              |          | _            |          |                 |
|               | 132        | <u> </u> | L            | L        | L.           | L            | L        |              | <u></u>  | Ш               |
|               | 133        | _        | _            | _        |              | $oxed{oxed}$ |          |              |          | Ш               |
|               | 134        | <u> </u> | ļ            | _        | L            | _            | _        | $oxed{oxed}$ | _        | Ц               |
| $\dashv$      | 135        |          | <u> </u>     | <u> </u> | _            | <u> </u>     | _        | <u> </u>     | <u> </u> | Ш               |
|               | 136        | L        | <u> </u>     | <u> </u> | ├            | <u> </u>     | <b>-</b> | <u> </u>     | _        | Ш               |
|               | 137        | <u> </u> | <del> </del> | <u> </u> | <u> </u>     | <b> </b>     |          | <u> </u>     | <u> </u> | Н               |
| -             | 138<br>139 | <u> </u> | -            | -        | ├-           | <del> </del> | <u> </u> | <u> </u>     | <u> </u> | Н               |
|               | 140        |          | _            | -        | _            | <u> </u>     | ⊢        |              | _        | $\vdash$        |
|               | 141        | -        | $\vdash$     | $\vdash$ | <del> </del> | <del> </del> | ├        | -            | -        | $\vdash$        |
|               | 142        | _        | ┝            | $\vdash$ | -            | -            |          | -            | H        | Н               |
|               | 143        |          | $\vdash$     | -        | -            | $\vdash$     | $\vdash$ | $\vdash$     |          | $\dashv$        |
|               | 144        | _        | $\vdash$     | $\vdash$ | -            | $\vdash$     | $\vdash$ |              | $\vdash$ | $\vdash \vdash$ |
|               | 145        |          | Н            | $\vdash$ | $\vdash$     |              | -        | $\vdash$     | $\vdash$ | $\vdash$        |
|               | 146        |          |              |          | $\vdash$     | $\vdash$     | -        | -            | -        | $\dashv$        |
|               | 147        |          |              | Н        | _            |              | -        |              | H        | $\dashv$        |
|               | 148        | _        |              |          |              |              |          | $\vdash$     | H        | $\dashv$        |
| $\neg \neg$   | 149        |          |              |          |              |              |          | _            | $\vdash$ | $\neg$          |
| $\neg \vdash$ | 150        |          |              |          |              |              |          |              |          | $\dashv$        |